

Claims

- [1] A flow path control valve, comprising:
a housing formed with a valve chamber that can be in fluid communication with an inlet and an outlet;
an opening/closing member installed movably within the valve chamber for moving between an opening position and a closing position to open or close a passage between the inlet and the outlet;
an elastic member installed within the valve chamber to bias the opening/closing member toward the closing position; and
a solenoid installed at a side of the housing to electromagnetically moving the opening/closing valve,
wherein a side of the opening/closing member is formed with a pressure equilibrium hole for causing the valve chamber to be in fluid communication with the inlet, and
a bypass tube is provided to discharge a fluid, which has been introduced into the valve chamber through the pressure equilibrium hole, to the outlet.
- [2] The flow path control valve as claimed in claim 1, further comprising:
an auxiliary valve chamber formed between the outlet and a discharge portion of the valve chamber;
an auxiliary opening/closing member movably installed in the auxiliary valve chamber to move between an opening position and a closing position where it can open and close a passage between the outlet and the discharge portion of the valve, respectively;
an auxiliary elastic member disposed within the auxiliary valve chamber to bias the auxiliary opening/closing member to the closing position; and
an auxiliary pressure equilibrium hole formed at a side of the opening/closing member to cause the auxiliary valve chamber to be in fluid communication with the outlet of the housing.